

Contents

	<i>Page</i>
Chapter I Introduction and Overview	I-1
Introduction.....	I-1
Authority	I-1
Proposed Federal Action.....	I-1
Purpose of and Need for Federal Action	I-3
Study Objectives	I-3
Scope and Structure of Document	I-4
Overview of Study Area and Background	I-5
History of 5-Mile Zone	I-6
Current Status of 5-Mile Zone.....	I-7
Public Involvement	I-7
Agency Consultation and Coordination	I-9
National Historic Preservation Act of 1966, as Amended.....	I-9
Fish and Wildlife Coordination Act, as Amended, and Endangered Species Act of 1973, as Amended.....	I-9
Indian Trust Assets.....	I-9
Adjacent Landowners	I-10
Other Related Activities	I-10
Chapter II Management Framework.....	II-1
Introduction.....	II-1
Reclamation Responsibilities Within the 5-Mile Zone Study Area.....	II-1
Outgrants	II-2
Acquisition of Reclamation Lands.....	II-2
Disposition of Reclamation Lands.....	II-3
Off-Road Vehicle Use	II-3
Concessions.....	II-3
Fire Management	II-5
Recreation.....	II-6
Responsibilities of Other Entities Within the 5-Mile Zone Study Area	II-6
International Boundary and Water Commission	II-6
United States Border Patrol	II-6
Arizona Game and Fish Department	II-7
Yuma Area Water Resources Management Group.....	II-8
Flat-Tailed Horned Lizard Interagency Coordinating Committee.....	II-8
Responsibilities of Other Entities Adjacent to 5-Mile Zone Study Area	II-8
Bureau of Land Management.....	II-9
U.S. Air Force and U.S. Navy	II-10
City of San Luis	II-11
City of Yuma.....	II-11
Yuma County	II-12

	<i>Page</i>
Chapter II Management Framework (continued)	
Responsibilities of Other Entities Adjacent to 5-Mile Zone	
Study Area (continued)	
Greater Yuma Port Authority	II-12
Hillander "C" Irrigation District.....	II-13
Chapter III Planning Issues, Opportunities, and Constraints	III-1
Introduction.....	III-1
Planning Issue Identification	III-1
Land Use Issue Category	III-4
Water Use Issue Category.....	III-4
Partnerships Issue Category.....	III-4
Natural and Cultural Resources Management Issue Category.....	III-4
Public Information and Education Issue Category.....	III-4
Recreation Management Issue Category	III-4
Health and Safety Issue Category	III-5
Management Opportunities.....	III-5
Partnership Opportunities.....	III-5
Interpretive Opportunities	III-5
Funding Opportunities	III-6
Management Constraints	III-9
Water Availability Constraints	III-9
Legislative Constraints.....	III-10
Federal Agency Constraints	III-10
Environmental Constraints.....	III-11
Carrying Capacity Constraints	III-11
Chapter IV Alternatives	IV-1
Introduction.....	IV-1
Alternative Formulation.....	IV-1
Alternative Elements.....	IV-4
Elements Common to All Alternatives.....	IV-4
Alternative Description	IV-6
No Action (Alternative A)	IV-6
Natural Resources Conservation/Protection (Alternative B).....	IV-8
Recreation, Community, and Commercial Development (Alternative C).....	IV-13
Natural Resources Conservation/Protection with Limited Recreation, Community, and Commercial Development (Alternative D) (Preferred Alternative)	IV-17
Elements Eliminated from Further Consideration	IV-19
Chapter V Affected Environment and Environmental Consequences	V-1
Introduction.....	V-1
Climate	V-1

	<i>Page</i>
Chapter V Affected Environment and Environmental Consequences (continued)	
Air Quality.....	V-2
Affected Environment.....	V-2
Environmental Consequences.....	V-4
Cumulative Impacts	V-4
Mitigation.....	V-4
Residual Impacts.....	V-5
Noise	V-5
Affected Environment.....	V-5
Environmental Consequences.....	V-5
Cumulative Impacts	V-6
Mitigation.....	V-7
Residual Impacts.....	V-7
Topography.....	V-7
Geology	V-7
Soils	V-8
Affected Environment.....	V-8
Environmental Consequences.....	V-8
Cumulative Impacts	V-9
Mitigation.....	V-9
Residual Impacts.....	V-9
Land Use and Transportation.....	V-10
Affected Environment.....	V-10
Environmental Consequences.....	V-18
Cumulative Impacts	V-20
Mitigation.....	V-20
Residual Impacts.....	V-20
Groundwater.....	V-21
Affected Environment.....	V-21
Environmental Consequences.....	V-23
Cumulative Impacts	V-25
Mitigation.....	V-25
Residual Impacts.....	V-26
Vegetation and Wildlife.....	V-26
Affected Environment.....	V-26
Environmental Consequences.....	V-36
Special Status Species.....	V-41
Affected Environment.....	V-41
Environmental Consequences.....	V-47
Cumulative Impacts	V-48
Mitigation.....	V-48
Residual Impacts.....	V-51
Recreation.....	V-51
Affected Environment.....	V-51
Environmental Consequences.....	V-54

	<i>Page</i>
Chapter V Affected Environment and Environmental Consequences (continued)	
Recreation (continued)	
Cumulative Impacts	V-56
Mitigation.....	V-57
Residual Impacts.....	V-57
Visual Resources.....	V-57
Affected Environment.....	V-57
Environmental Consequences.....	V-58
Cumulative Impacts	V-58
Mitigation.....	V-58
Residual Impacts.....	V-59
Economics.....	V-59
Affected Environment.....	V-59
Environmental Consequences.....	V-62
Cumulative Impacts	V-63
Mitigation.....	V-63
Residual Impacts.....	V-63
Cultural Resources	V-64
Affected Environment.....	V-64
Conclusions and Recommendations.....	V-68
Environmental Consequences.....	V-69
Cumulative Impacts	V-70
Mitigation.....	V-70
Residual Impacts.....	V-71
Indian Sacred Sites	V-71
Affected Environment.....	V-71
Environmental Consequences.....	V-72
Cumulative Impacts	V-72
Mitigation.....	V-73
Residual Impacts.....	V-73
Indian Trust Assets	V-73
Affected Environment.....	V-73
Environmental Consequences.....	V-73
Cumulative Impacts	V-74
Mitigation.....	V-74
Residual Impacts.....	V-74
Environmental Justice.....	V-74
Affected Environment.....	V-74
Environmental Consequences.....	V-75
Cumulative Impacts	V-78
Mitigation.....	V-78
Residual Impacts.....	V-78
Unavoidable Adverse Impacts	V-78
Irreversible and Irretrievable Commitments of Resources	V-79
Relationship Between Short-Term Uses and Long-Term Productivity	V-79

CONTENTS

	<i>Page</i>
Chapter VI Resource Management Plan.....	VI-1
Introduction.....	VI-1
Plan Development	VI-1
Management Actions to Implement the Resource Management Plan	VI-2
General Management Actions.....	VI-2
Goals and Objectives	VI-3
Specific Management Actions	VI-3
Land Use Issue Category	VI-4
Water Use Issue Category.....	VI-8
Partnerships Issue Category.....	VI-8
Natural and Cultural Resources Management Issue Category.....	VI-12
Public Information and Education Issue Category	VI-13
Recreation Management Issue Category	VI-14
Health and Safety Issue Category	VI-16
Plan Implementation.....	VI-17
Guidance and Standards	VI-19
Monitoring.....	VI-20
Amendments and Modifications to the RMP/EA.....	VI-21
Environmental Commitments.....	EC-1
List of Preparers	
Bibliography	BIB-1
Glossary	GLOS-1
Distribution List	DL-1
Attachments	
Attachment A Minute No. 242 of the International Boundary and Water Commission	A-1
Attachment B Public Law 92-320, as amended by Public Law 96-336.....	B-1
Attachment C NHPA Section 106 Consultation FWCA and ESA Consultation.....	C-1
Attachment D DM 613	D-1
Attachment E Elements of the 5-Mile Zone Study Area RMP Alternatives.....	E-1
Attachment F Partial List of Applicable Federal Laws, Regulations, and Executive Orders	F-1
Attachment G Summary of Elements in Proposed RMP	G-1
Attachment H Criteria for Facility Development	H-1
Attachment I Criteria for Nonmotorized Multiuse Trail Development.....	I-1

TABLES

<i>Table No.</i>		<i>Page</i>
IV-1	5-Mile Zone Study Area RMP/EA Summary Effects of Alternatives on Resources.....	follows page
V-1	Special Status Species for Yuma County, Arizona	V-41
V-2	Personal Income and Earnings, Yuma County 1990 and 2000.....	V-59
V-3	Total Employment and Employment by Industry, Yuma County 1990 and 2000	V-60
V-4	Total Employment and Employment by Industry, City of San Luis.....	V-61
V-5	San Luis Growth Indicators 1990 and 2000.....	V-61
V-6	1997 Census of Agriculture, Yuma County	V-62
V-7	1999 Crop Production, Yuma County	V-62
V-8	Population, Race, and Ethnicity, 2000	V-76
V-9	Income and Poverty, 1999	V-77
V-10	Housing, Labor Force, and Employment, 2000.....	V-77

FIGURES

<i>Figure No.</i>		<i>Page</i>
III-1	Steps in Resource Management Planning Process	III-2
V-1	Other Land Use Agreements in the 5-Mile Zone Study Area.....	V-14
V-2	Recreation Facilities and Attractions near Yuma, Arizona	V-52
VI-1	Working Group Process	VI-18

MAPS

<i>Map No.</i>		<i>Page</i>
I-1	Study Location Map.....	I-2
I-2	5-Mile Zone Study Area Boundary.....	follows page
II-1	5-Mile Zone Land Ownership	follows page
V-1	5-Mile Zone Geology.....	follows page
V-2	5-Mile Zone Soil Associations.....	follows page
V-3	5-Mile Zone Existing Land Uses.....	follows page
V-4	5-Mile Zone Existing Well Sites Within the Study Area and Vicinity	follows page
V-5	5-Mile Zone Vegetation	follows page
V-6	5-Mile Zone Flat-Tailed Horned Lizard Management Area.....	follows page
VI-1	5-Mile Zone Final Resource Management Plan	VI-2

PHOTOGRAPHS

<i>Photograph No.</i>		<i>Page</i>
V-1	Typical landscape within 5-mile zone study area	V-2
V-2	Conveyance system.....	V-12
V-3	PRPU well site.....	V-12
V-4	U.S. Border Patrol drag road	V-13
V-5	International boundary.....	V-15
V-6	Burrow in the soft sand deposited around a creosote bush.....	V-28
V-7	The California leaf-nosed bat is a year-round resident of the desert scrub feeding on night-flying beetles, grasshoppers, and moths.....	V-32
V-8	Black-throated sparrows thrive in the hottest and driest deserts without water by eating green vegetation and insects	V-33
V-9	Fringe-toed lizards are sand swimmers, burrowing quickly into the sand to avoid predators or to avoid extreme heat or cold	V-35
V-10	Illegal dump sites are common in the undeveloped portions of the 5-mile zone study area.....	V-37
V-11	The Border Patrol maintains the drag road along the International Border.....	V-37
V-12	Unauthorized OHV use.....	V-51